

ABSTRACT OF THE DISCLOSURE

An ink composition is manufactured to contain a surfactant having difference $d1$ ($\sigma_{10} - \gamma$) which is difference between dynamic surface tension (σ_{10}) of the solution obtained by making 0.1 wt% solution dissolved in purified water to be measured by using a maximum bubble pressure method at the bubble frequency of 10Hz at a temperature from 24 °C to 26 °C and static surface tension (γ) to be measured at a temperature from 24 °C to 26 °C and which satisfies $0\text{mN/m} \leq d1 \leq 15\text{mN/m}$. An image is recorded by applying a voltage to partitions made of a piezoelectric material thereby applying a pressure to the ink composition supplied from an ink tank to an ink chamber of an ink head to discharge a liquid droplet of the ink composition, and depositing the liquid droplet onto a recording material.